Tribhuvan University Institute of Science and Technology

2070

Bachelor Level/ Fourth Year/ Seven Semester/ Science Full Marks: 60
Computer Science and Information Technology (CSc. 402) Pass Marks: 24
(Internet Technology) Time: 3 hours

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt all questions.

- 1. How does satellite link work? What are the advantages using satellite as communications?
- 2. What do you mean by internet protocol suite? Discuss about the IP heads.
- 3. What are the main services provided by PGP protocol? How those consume in mail application?
- 4. What is VPN tunnel? Illustrate the principle of VPN client-server interaction with an example.
- 5. Describe the XML usage in web. What an XML element can contain, show with an example.
- 6. What do you mean by universal naming conventions? Given a URL string
- "http:mail.google.com/?shva=index#inbox". Now identify schema name hierarchical part, query & fragment in the string.
- 7. How an AJAX program gets executed? Discuss the steps of AJAX operations. Show with e.g. How can we create XML http report object?
- 8. What are the proxy servers? Differentiate each of open, forward and reverse proxy servers.
- 9. Define working mechanism of VOIP? How undefined message benefits the communication systems?
- 10. Why load balancing is needed in servers? How WRR allocation for load balancing differs from dynamic round robin allocation?

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